

NOTE TO DETAILER:
All notes and details
shown need to be
revised per project.

Elevation

Plan

DETAILS FOR MSE WALL

GENERAL NOTES:
Design Specifications:
2002 - AASHTO 17th Edition
Load Factor Design
Seismic Performance Category
Acceleration Coefficient =

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MD		

All concrete for leveling pad and coping shall be Class B or B-1 with $f'c = 4000$ psi.

The MSE wall system shall be built vertical.

The MSE wall system shall be a small large block wall system in accordance with Sec 720.

Factor of safety shall be 2.0 for overturning, 1.5 for sliding and 2.0 for bearing.

The cost of joint filler and joint seal, complete-in-place, will be considered completely covered by the contract unit price for Concrete Traffic Barrier (Type A B). See Roadway Plans.

For seismic design the factor of safety shall be 1.5 for overturning and 1.1 for sliding.

• = * for backfill material to be retained by the mechanically stabilized earth wall system.

• = * for foundation material the wall is to rest on.

• $\geq 34^\circ$ for the select granular backfill for structural systems.

Design • = 34° for the select granular backfill for structural systems.

The boring logs or other factual records of subsurface data and investigations performed by the department for the design of this project is available from the Project Contact upon written request as outlined in the Project Special Provisions.

Panel reinforcement shall be epoxy coated.

Anchorage reinforcement shall be spaced to avoid roadway drop inlet behind wall.

A filter cloth meeting the requirements for a Separation Geotextile material shall be placed between the select granular backfill for structural systems and the backfill being retained by the mechanically stabilized earth wall system.

Coping shall be required on this structure unless a small block system is used.

The top and bottom elevations are given for a vertical wall. If a battered wall system is used, the height of the wall shall be adjusted as necessary to fit the ground slope and the concrete leveling pad shall be adjusted as necessary to account for the wall batter. If a fence is built on an extended gutter, then the height of the wall shall be adjusted further.

The baseline of the wall shown is for a vertical wall. If a battered wall system is used, this baseline shall correspond to Elevation -----.

The contractor shall be solely responsible to coordinate construction of the wall with bridge and roadway construction and ensure that the bridge and roadway construction, resulting or existing obstructions, shall not impact the construction or performance of the wall. Soil reinforcement shall be designed and placed to avoid damage by pile driving, guardrail post installation, utility and sign foundations. (See Roadway and Bridge plans.)

MSE Wall Systems Data Table					
Proprietary Wall Systems		Combination Wall Systems			
Manufacturer	System	Facing Unit Manufacturer	Facing Unit	Geogrid Manufacturer	Geogrid

MSE Wall Systems Data Table is to be completed by MoDOT construction personnel to record the manufacturer of the proprietary wall system or the manufacturer of the combination wall system that was used for constructing the MSE wall.

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

COUNTY MSE 01

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